Case Docket No. 23062

Filed: Herewith

Amendment to the claims

This listing of claims replaces all prior versions and listing of claims in the application. Please cancel claims 1-15 without prejudice and add claims 16-27.

In the Claims:

1 - 15. (Canceled)

- 16. (New) A method for producing a substance comprising culturing cells that produce said substance in the presence of a nutrient media that results in a degree of glucose limitation (DGL), wherein the DGL is larger than the degree of glucose limitation needed for maintenance of the cell (DGL $_{\rm maintenance}$) and the DGL ratio of the currently observed specific consumption rate to the maximum known specific consumption rate for said cells is ≤ 0.5 .
- 17. (New) The method of claim 16, wherein the DGL is \leq 0.4.
- 18. (New) The method of claim 16, wherein the DGL is ≤ 0.3 .
- 19. (New) The method of claim 16, wherein the nutrient media comprises glucose and further wherein the amount of glucose is not more than 50% of that which can be maximally consumed by the maximum expected cell count without glucose limitation.
- 20. (New) The method of claim 19, wherein the amount of glucose is not more than 35% of that which can be maximally consumed by the maximum expected cell count without glucose limitation.

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21. (New) The method of claim 16, wherein the cells are selected from the group of cell lines comprising CHO such as CHO-K1, BHK such as BHK-21, hybridoma, myeloma cells such as NS/O and other mammalian cells.

- 22. (New) The method of claim 16, wherein the produced substances are proteins or polypeptides.
- 23. (New) The method of claim 21, wherein the produced protein or polypeptide substances comprise fusion proteins, MUC1-IgG2a, MUC2-GFP-C-term, EPO, interferons, cytokines, growth factors, hormones, PA, immunoglobulins, fragments of immunoglobulins or other glycoproteins.
- 24. (New) The method of claim 19, characterized in that a glucose-containing medium is used which is not limiting with regard to other nutrient components before glucose limitation occurs.
- 25. (New) The method of claim 24, wherein the glucose is fed separately from other nutrient media.
- 26. (New) The method of claim 16, wherein the culture is carried out in a pH range of 6.7-7.7.
- 27. (New) The method of claim 16, wherein the cells are cultured under a fed-bath or perfusion process.